



लोक सेवा आयोग

राष्ट्रिय जीवन बीमा कम्पनी लिमिटेड, प्राविधिक सेवा, एकचुरी समूह, तह ४, सहायक पदको
खुला प्रतियोगितात्मक लिखित परीक्षा

चरण:

पत्र: द्वितीय

समय: २ घ. ३० मि.

विषय:

पूर्णाङ्क: १००

प्रत्येक खण्डको उत्तर छुट्टाछुट्टै उत्तरपुस्तिकामा लेख्नुपर्नेछ । अन्यथा उत्तरपुस्तिका रद्द हुनेछ ।

खण्ड "क"

७० अङ्क

1. Why is actuarial science important for insurance companies? 5
2. Explain the major functions and duties of Rastriya Jeewan Beema Company Limited (RJBCCL). 5
3. A 35-year-old person purchases an individual life insurance policy with a sum assured of Rs. 20 lakh for 20 years. Explain factors that an insurer would consider when determining the premium. 5
4. Explain the major additional riders—Accidental Death Benefit (ADB), Permanent Total Disability (PTD), Partial Permanent Disability (PPD), and Critical Illness with examples. 5
5. The total insurance penetration in Nepal is 3.72% of GDP. What does this figure indicate? 5
6. An insurance company can estimate that the probability of a particular type of claim is 2% based on historical data. Is this Risk or Uncertainty? Justify. 5
7. An insurer estimates that a particular risk has a 5% probability of causing a Rs. 20 million loss during the year. Calculate the expected loss and explain how risk management can use this information. 2+3
8. Define Business Finance. Explain its importance, particularly in the context of an insurance company. 2+3
9. a) Define portfolio diversification and discuss its importance for an insurance company. 1+4
b) Explain the major components of the financial statements of an insurance



company.

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10. A life insurance policy requires a premium of Rs. 30,000 at the beginning of each year for 10 years. The policy pays a benefit of Rs. 750,000 at the end of year 10. Assume an effective annual interest rate of 5%.

(a) Calculate the present value of the premium payments.

(b) Calculate the present value of the benefit.

(c) Compare the two present values.

(d) Explain why a real actuarial valuation cannot simply compare these two amounts without further assumptions.

4+3+1+2

11. An insurance company has found that the probability that a policyholder makes at least one claim during a year is 0.08. Suppose 15 policyholders are selected independently. Find:

(a) Explain why the binomial distribution is appropriate.

(b) The probability that exactly 2 policyholders make a claim.

(c) The probability that at most 2 policyholders make a claim.

(d) The expected number and variance of policyholders making claims.

2+3+3+2

खण्ड "ख"

३० अङ्क

12. Explain the major objectives of the Corporate Governance Directives, 2080.

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13. Explain the difference between the Memorandum of Association and Articles of Association of RJBCL.

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14. What is the purpose of the Employee Service, Conditions and Facilities Bylaw, 2082?

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15. What types of activities may constitute money laundering under the Asset (Money) Laundering Prevention Act, 2008?

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16. a) Why is the Insurance Act, 2079 important for Nepal's financial system?

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b) What is the main purpose of Insurance Regulation, 2081?

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:: समाप्त ::